

AMENDMENTS

In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (currently amended): An electrode array structure in a pixel area of an in-plane switching mode LCD (IPS-LCD), comprising:

a comb-shaped common electrode having a bar extending transversely and a plurality of rectangular teeth extending in a first lengthwise direction from the bar; and

a comb-shaped pixel electrode having a bar extending transversely and a plurality of teeth extending in a second lengthwise direction from the bar, wherein each tooth has a continuous \angle -shaped sidewall and parallel is disposed between adjacent teeth of the common electrode;

wherein each tooth of the pixel electrode is formed by lengthwise linking of a plurality of trapezoids.

Claim 2 (canceled).

Claim 3 (currently amended): The electrode array structure according to claim ~~[[2]]~~ 1, wherein the short-based length D_1 and the long-based length D_2 of the trapezoid satisfy the formula $D_2 \leq |D_1 \pm 50\mu\text{m}|$, excluding the case that $D_2 = D_1$.

Claim 4 (currently amended): The electrode array structure according to claim ~~[[2]]~~ 1, wherein two adjacent trapezoids are connected by a rectangular strip.

Claim 5 (original): The electrode array structure according to claim 1, wherein each tooth of the pixel electrode is formed by lengthwise linking of a plurality of inverted trapezoids.

Claim 6 (original): The electrode array structure according to claim 5, wherein the short-based length D_1 and the long-based length D_2 of the inverted trapezoid satisfy the formula $D_2 \leq |D_1 \pm 50\mu\text{m}|$, excluding the case that $D_2 = D_1$.

Claim 7 (original): The electrode array structure according to claim 5, wherein two adjacent inverted trapezoids are connected by a rectangular strip.

Claim 8 (original): The electrode array structure according to claim 1, wherein each tooth of the pixel electrode is indium tin oxide (ITO).

Claim 9 (original): The electrode array structure according to claim 1, wherein each tooth of the pixel electrode comprises:

a first electrode layer having a rectangular profile;

a second electrode layer disposed over the first electrode layer and having a continuous \angle -shaped sidewall; and

a protection layer sandwiched between the first electrode layer and the second electrode layer.

Claim 10 (original): The electrode array structure according to claim 9, wherein the second electrode layer is indium tin oxide (ITO).

Claim 11 (original): The electrode array structure according to claim 1, wherein each tooth of the pixel electrode comprises:

a first electrode layer having a continuous \angle -shaped sidewall;

a second electrode layer disposed over the first electrode layer and having a rectangular profile; and

a protection layer sandwiched between the first electrode layer and the second electrode layer.

Claim 12 (original): The electrode array structure according to claim 11, wherein the second electrode layer is indium tin oxide (ITO).

Claim 13 (currently amended): An electrode array structure in a pixel area of an in-plane switching mode LCD (IPS-LCD), comprising:

a comb-shaped common electrode having a bar extending transversely and a plurality of teeth extending in a first lengthwise direction from the bar, wherein each tooth of the common electrode has a continuous \angle -shaped sidewall; and

a comb-shaped pixel electrode having a bar extending transversely and a plurality of rectangular-shaped teeth extending in a second lengthwise direction from the bar, wherein each tooth of the pixel electrode parallel is disposed between adjacent teeth of the common electrode;

wherein each tooth of the common electrode is formed by lengthwise linking of a plurality of trapezoids.

Claim 14 (Canceled).

Claim 15 (currently amended): The electrode array structure according to claim ~~[[14]]~~ 13, wherein the short-based length D_1 and the long-based length D_2 of the trapezoid satisfy the formula $D_2 \leq |D_1 \pm 50\mu\text{m}|$, excluding the case that $D_2 = D_1$.

Claim 16 (currently amended): The electrode array structure according to claim ~~[[14]]~~ 13, wherein two adjacent trapezoids are connected by a rectangular strip.

Claim 17 (original): The electrode array structure according to claim 13, wherein each tooth of the common electrode is formed by lengthwise linking of a plurality of inverted trapezoids.

Claim 18 (original): The electrode array structure according to claim 17, wherein the short-based length D_1 and the long-based length D_2 of the inverted trapezoid satisfy the formula $D_2 \leq |D_1 \pm 50\mu\text{m}|$, excluding the case that $D_2 = D_1$.

Claim 19 (original): The electrode array structure according to claim 17, wherein two adjacent inverted trapezoids are connected by a rectangular strip.

Claim 20 (original): The electrode array structure according to claim 13, wherein each tooth of the common electrode is indium tin oxide (ITO).

Claim 21 (original): The electrode array structure according to claim 13, wherein each tooth of the common electrode comprises:

- a first electrode layer having a rectangular profile;

- a second electrode layer disposed over the first electrode layer and having a continuous \angle -shaped sidewall; and

- a protection layer sandwiched between the first electrode layer and the second electrode layer.

Claim 22 (original): The electrode array structure according to claim 21, wherein the second electrode layer is indium tin oxide (ITO).

Claim 23 (original): The electrode array structure according to claim 13, wherein each tooth of the common electrode comprises:

- a first electrode layer having continuous \angle -shaped sidewall;

- a second electrode layer disposed over the first electrode layer and having a rectangular profile; and

- a protection layer sandwiched between the first electrode layer and the second electrode layer.

Claim 24 (original): The electrode array structure according to claim 23, wherein the second electrode layer is indium tin oxide (ITO).

Claim 25 (currently amended): An electrode array structure in a pixel area of an in-plane switching mode LCD (IPS-LCD), comprising:

a comb-shaped common electrode having a bar extending transversely and a plurality of teeth extending in a first lengthwise direction from the bar, wherein each tooth of the common electrode has a continuous \angle -shaped sidewall; and

a comb-shaped pixel electrode having a bar extending transversely and a plurality of teeth extending in a second lengthwise direction from the bar, wherein each tooth has a continuous \angle -shaped sidewall and parallel is disposed between adjacent teeth of the common electrode;

wherein each tooth of the common electrode is formed by lengthwise linking of a plurality of trapezoids, and each tooth of the pixel electrode is formed by lengthwise linking of a plurality of inverted trapezoids.

Claim 26 (canceled).

Claim 27 (currently amended): The electrode array structure according to claim [[26]] 25, wherein the short-based length D_1 and the long-based length D_2 of the trapezoid satisfy the formula $D_2 \leq |D_1 \pm 50\mu\text{m}|$, excluding the case that $D_2 = D_1$.

Claim 28 (original): The electrode array structure according to claim 25, wherein two adjacent trapezoids are connected by a rectangular strip, and two adjacent inverted trapezoids are connected by a rectangular strip.

Claim 29 (original): The electrode array structure according to claim 25, wherein each tooth of the common electrode is formed by lengthwise linking of a plurality of inverted trapezoids, and each tooth of the pixel electrode is formed by lengthwise linking of a plurality of trapezoids.

Claim 30 (original): The electrode array structure according to claim 29, wherein the short-based length D_1 and the long-based length D_2 of the trapezoid satisfy the formula $D_2 \leq |D_1 \pm 50\mu\text{m}|$., excluding the case that $D_2 = D_1$.

Claim 31 (original): The electrode array structure according to claim 29, wherein two adjacent trapezoids are connected by a rectangular strip, and two adjacent inverted trapezoids are connected by a rectangular strip.

Claim 32 (original): The electrode array structure according to claim 25, wherein each tooth of the common electrode is indium tin oxide (ITO).

Claim 33 (original): The electrode array structure according to claim 25, wherein each tooth of the pixel electrode is indium tin oxide (ITO).